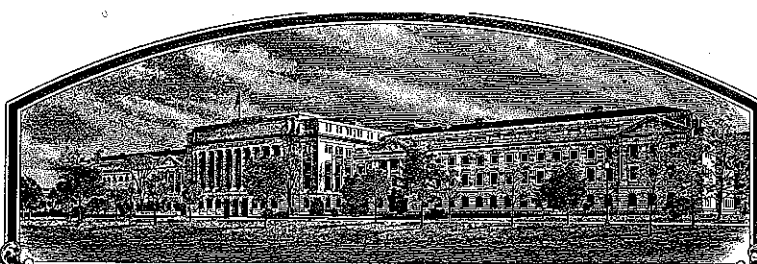


No.

200400117



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

D&H Technology Holding Company, LLC.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'02T57R'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and five.

Attest:


Commissioner
Plant Variety Protection Office
Agricultural Marketing Service


Secretary of Agriculture



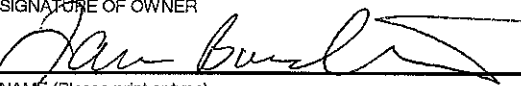
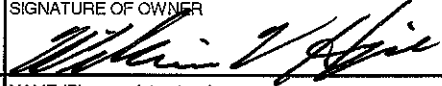
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2428).

1. NAME OF OWNER D&PL Technology Holding Company, LLC.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 02T57R		3. VARIETY NAME '02T57R'	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 157 100 Main Street Scott, Mississippi 38772 USA		5. TELEPHONE (include area code) (662) 742-4141		PVPO NUMBER 200400117	
		6. FAX (include area code) (662) 742-3182		FILING DATE 2/23/04	
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Limited Liability Company		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION February 29, 1996	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Delta and Pine Land Company Kelly Casavechia P.O. Box 157 Scott, MS 38772				FILING AND EXAMINATION FEE: \$ 3,652.00 DATE 2/23/04 CERTIFICATION FEE: \$ 682.00 DATE 8/8/05	
11. TELEPHONE (include area code) (662) 742-4141		12. FAX (include area code) (662) 742-3182		13. E_MAIL kelly.h.casavechia@deltaandpine.com	
14. CROP KIND (Common Name) COTTON		15. GENUS AND SPECIES NAME OF CROP Gossypium hirsutum		16. FAMILY NAME (Botanical) Malvaceae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse). a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 			
NAME (Please print or type) Lawrence Burdett		NAME (Please print or type) William V. Hugie			
CAPACITY OR TITLE Cotton Breeder		DATE 2-17-04		CAPACITY OR TITLE Vice President/Dir. of Research	
DATE 2-17-04					

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Complete application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a *violin in the sense that it will reproduce an entire plant* tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,700 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" *See Section 97.6 of the Regulations and Rules of Practice.* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your file. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If a new variety is most similar to one variety or a group of related varieties:
- (1) Identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See Regulations and Rules of Practice, Section 97.103.*)
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

ROUNDUP READY[®] cotton:

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership, assignment or any modification of owner's name is specified in Section 97.175 of the regulations (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

D&PL's APPLICATION FOR:**EXHIBIT A - Origin and Breeding History**

02T57R is derived from the incorporation of the Monsanto Company's proprietary transgene, event 1445 patented as Roundup Ready ®, into experimental strain SG 95-555.

SG 95-555 was created from a cross of MO195/DP5415 and subsequent pedigree breeding through the F₅ generation at Maricopa, AZ. by Dr. William Sappenfield.

02T57R was developed through backcross breeding using SG 95-555 as the recurrent parent. The F₁, BC₁, and BC₂ crosses were made in Delta and Pine Land Company's greenhouse in Scott, MS. BC₂F₁ plants were grown and selfed in the greenhouses located at Scott, MS. BC₂F₂ plants were grown and selfed in the field near Puntarenas, Costa Rica.

SG95555[1445]-00BC2F3 progeny rows were grown at Scott, MS in the summer of 2000. Progeny were selected for the "Roundup Ready Gene" in a homozygous form, the negative presence of the "BollGard Gene" and promising agronomic traits. The line SG95555[1445]-00BC2F3-189, subsequently tested as 02T57R, was sent to winter nursery in Costa Rica for increase during the 2000-01 season.

02T57R has been widely tested from 2001 to 2003 over a range of environments (years by locations).

STATEMENT OF UNIFORMITY AND STABILITY FOR 02T57R

02T57R is observed to be stable and uniform. No variants have been observed from 2000 to 2003.

D&PL's Application for :

EXHIBIT B – NOVELTY STATEMENT

Novelty Statement

02T57R is novel relative to DP 5415 RR, the variety 02T57R most closely resembles, because micronaire, 2.5% span length, uniformity percent, strength, maturity rating, string out rating, fall out rating, lint index, number of seeds per boll and seed index are significantly different at $P \leq .05$.

02T57R most closely resembles DP 5415 RR. SGX 95-555, the recurrent parent, was derived from the cross of MO 195/DP 5415. DP 5415 was the recurrent parent of DP 5415 RR therefore similarities are expected

Summary of significant differences between 02T57R and DP 5415 RR

1. **Micronaire** is significantly lower, -1^{**} , $P \leq .002$. See "Micronaire", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
2. **2.5% Span Length** is significantly longer, $.04^{***}$, $P \leq .000$. See "2.5% Span Len", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
3. **Uniformity Percent** is significantly higher, $.6^{**}$, $P \leq .009$. See "Uniformity Percent", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
4. **Strength** is significantly higher, $.5^{*}$, $P \leq .024$. See "Strength", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
5. **Maturity Rating** is lower, $-.3^{**}$, $P \leq .010$. See "Sting Out Rating", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
6. **String Out Rating** is higher, $.7^{***}$, $P \leq .000$. See "Sting Out Rating", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
7. **Fall Out Rating** is higher, $.6^{***}$, $P \leq .000$. See "Fall Out Rating", Exhibit C. Table C1. Summary of Supporting Agronomic Data.
8. **Lint Index** is higher, $.8^{**}$, $P \leq .001$. See "Lint Index", Exhibit C. Table C2. Plant Mapping Data. Data taken at Maricopa, AZ. in 2003.
9. **Seed Index** is higher, $.8^{*}$, $P \leq .015$. See "Seed Index", Exhibit C. Table C2. Plant Mapping Data. Data taken at Maricopa, AZ. in 2003.
10. **Number of Seeds per Boll** is lower, -3.1^{*} , $P \leq .038$. See "Number of Seeds per Boll", Exhibit C. Table C2. Plant Mapping Data. Data taken at Maricopa, AZ. in 2003.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotope, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

EXHIBIT C
(COTTON)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
D&PL TECHNOLOGY HOLDING COMPANY, LLC.	02T57R	
	SG95555[1445]-00BC2F3-189	
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		FOR OFFICIAL USE ONLY
P.O. Box 157		PVPO NUMBER
100 N. Main Street		
Scott, Mississippi 38772		200400117

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. DP 5415 RR Variety 2. _____ Variety 3. _____

*1. SPECIES:

X *G. hirsutum* L. _____ *G. barbadense* L.

*2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)

A Eastern _A_ Delta NT_ Central NT_ Blacklands
 NT_ Plains _A_ Western _A_ Arizona NT_ San Joaquin
 _____ Other (Specify): _____

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
Plant Habit:				
Spreading, Intermediate, Compact	___ Intermediate ___	___ Intermediate ___	_____	_____
Foliage:				
Sparse, Intermediate, Dense	___ Intermediate ___	___ Intermediate ___	_____	_____
Stem Lodging:				
Lodging, Intermediate, Erect	___ Intermediate ___	___ Intermediate ___	_____	_____
Fruiting Branch:				
Clustered, Short, Normal	___ Normal	Normal		

3. GENERAL: (continued)

Growth:Determinate, Intermediate,
Indeterminate

Determinate

Determinate

200400117
REPLACEMENT
9/9/04 LAL**Leaf Color:**Greenish yellow, Light green,
Medium green, Dark green

Medium green

Light Green

Boll Shape: Length less than width,

Length equal to width,

Length more than width

_Length > width

Length > Width

Boll Breadth: Broadest at base,

Broadest at middle

_Broadest @ Base

_Broadest @ Base

*4. MATURITY: (50 % Open bolls; Preferred method; Describe method if different method was used.)

- Method Used, Visual Rating (1=Earliest, 5=Latest)

Visual Rating (1=Early, 5=Late)

3.0

3.3

5. PLANT:

Cm to 1st Fruiting Branch:

(from cotyledonary node)

19.0

19.5

No. of Nodes to 1st Fruiting Branch:

(excluding cotyledonary node)

6.3

6.0

Mature Plant Height cm:

(from cotyledonary node to terminal)

105.8

104.8

*6. LEAF: Upper most, fully expanded leaf.

Type: Normal, Sub Okra,

Okra, Super Okra

Normal

Normal

Pubescence: Absent, Sparse,Medium, Dense **OR** Trichomes/cm²

(Bottom surface excluding veins)

Medium

Sparse

Nectaries: Present or Absent

Present

Present

*7. STEM PUBESCENCE:

Glabrous, Intermediate, Hairy

Intermediate

Intermediate

*8. GLANDS: (Gossypol) Absent, Sparse, Normal, More Than Normal

Leaf:

Normal

Normal

Stem:

Normal

Normal

Calyx Lobe: (normal is absent)

Normal

Normal

*9. FLOWER:

Petals: Cream, Yellow

Cream

Cream

Pollen: Cream, Yellow

Cream

Cream

Petal Spot: Present, Absent

Absent

Absent

200400117
REPLACEMENT
9/9/04 WWH

11/1/19

NT Thielaiopsis basicola

13. DISEASES : (continued)

NT Diplodia Boll Rot

NT Verticillium Wilt

NT Other (specify) _____

200400117
REPLACEMENT
9/9/04 LAL

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT Root-Knot Nematode

NT Reniform Nematode

NT Boll Weevil

NT Grasshopper (specify species): _____

NT Bollworm

NT Lygus (specify species): _____

NT Cotton Aphid

S Pink Bollworm

NT Cotton Fleahopper

NT Spider Mite (specify species): _____

NT Cotton Leafworm

NT Stink Bug (specify species): _____

NT Cutworm (specify species): _____

NT Thrips (specify species): _____

S Fall Armyworm

S Tobacco Bud Worm

_____ Other (specify): _____

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

8

Response to E-mail Request for F-test Analysis dated 6/18/04

Table 1. Head to head comparisons of 02T57R with DP 5415 RR

EXHIBIT C. Table C1. Summary of Supporting Agronomic Data (Amended June 28, 2004)																						
(Derived From Exh C Table 1a., Data referenced by test name.)																						
Test Description			Lint Percent		Micronaire		Length		Uniformity		Strength		Elongation		Plant Height		Maturity ²		String Out ³		Fall Out ⁴	
Year	City	State	Test Name	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R
2001	Coolidge	AZ	11CO0720	0.404	0.394	5.2	5.1	1.22	1.18	84.3	84.4	32.9	33.6	10.5	11.2	34.4	40.6	3.5	3.7	4.0	2.3	02T57R
2002	Coolidge	AZ	23CO0708	0.404	0.390	4.5	4.5	1.15	1.15	79.2	77.1	27.8	30.2	14.3	14.0	34.4	40.6	2.3	3.3	4.3	3.0	02T57R
2003	Coolidge	AZ	31CO0725	0.395	0.387	5.0	4.9	1.22	1.21	84.7	84.5	32.8	33.5	14.3	14.4	34.4	40.6	3.0	3.8	3.5	3.0	02T57R
2003	Coolidge	AZ	34CO0707	0.387	0.377	5.3	5.4	1.19	1.16	83.9	83.5	31.9	31.5	12.6	12.7	34.4	40.6	3.5	3.7	2.3	2.3	02T57R
2001	Marana	AZ	11MR0721	0.377	0.363													3.0	4.0	4.0	2.0	02T57R
2001	Maricopa	AZ	11MA0719	0.379	0.369	4.5	4.8	1.21	1.17	83.1	84.2	30.5	31.3	11.6	11.9	34.4	40.6	2.7	3.7	3.0	2.0	02T57R
2002	Maricopa	AZ	23MA0705	0.404	0.386	4.3	4.0	1.21	1.19	82.5	83.3	31.8	32.6	15.0	14.3	34.4	40.6	2.5	3.3	3.8	2.0	02T57R
2003	Maricopa	AZ	31MA0728	0.372	0.352	5.0	5.3	1.24	1.22	85.2	84.9	33.5	32.4	12.6	11.8	34.4	40.6	2.3	2.7	2.7	2.3	02T57R
2003	Maricopa	AZ	34MA0730	0.360	0.355	5.3	5.2	1.22	1.24	85.5	84.1	32.7	30.1	11.2	11.1	34.4	40.6	2.8	3.0	3.8	2.5	02T57R
2002	Bainbridge	GA	23BB0214	0.401	0.418	4.7	4.9	1.18	1.14	85.3	86.4	30.9	31.2	13.6	14.5	37.0	36.0	2.8	2.0	2.5	1.8	02T57R
2003	Bainbridge	GA	34BB0205	0.388	0.383	4.1	4.2	1.14	1.10	83.7	82.9	31.0	30.1	14.3	15.1	37.0	36.0	2.0	2.0	2.0	1.0	02T57R
2003	Statesboro	GA	34SB0209	0.374	0.389	4.4	4.3	1.12	1.11	83.7	84.0	30.8	32.0	15.1	15.1	39.0	42.3	2.8	2.8	2.5	1.5	02T57R
2002	Tifton	GA	23TF0213	0.393	0.408	4.4	4.5	1.17	1.09	87.4	85.5	28.8	28.1	14.7	14.6	39.0	42.3	2.8	2.0	2.0	1.0	02T57R
2003	Tifton	GA	34TF0203	0.399	0.412	4.1	4.0	1.16	1.11	82.9	81.6	32.9	31.2	13.6	13.7	57.8	63.3	4.0	4.0	3.1	1.8	02T57R
2003	Unadilla	GA	34UN0207	0.387	0.387	4.1	4.2	1.16	1.11	83.4	83.2	32.1	32.3	13.7	14.2	33.8	36.3	2.8	2.0	1.3	1.0	02T57R
2003	Willacoochee	GA	34WC0211	0.404	0.413	4.6	4.5	1.15	1.11	84.1	83.5	31.0	32.1	12.9	13.9	38.3	37.0	1.8	1.8	1.5	1.0	02T57R
2003	Willacoochee	GA	34WU0213	0.388	0.393	4.2	4.4	1.14	1.10	83.5	83.2	27.8	27.6	13.8	15.2	44.3	45.3	1.8	1.8	1.3	1.0	02T57R
2002	Newellton	LA	23NE0416	0.406	0.409	4.8	4.9	1.17	1.13	86.7	84.7	31.5	30.1	13.4	14.2	44.3	45.3	2.7	2.7	1.6	1.0	02T57R
2003	Newellton	LA	34NE0403	0.410	0.414	4.4	4.7	1.16	1.13	82.6	82.8	30.9	29.9	12.1	12.7	37.6	36.4	3.6	3.5	3.6	2.9	02T57R
2003	Wisner	LA	34WI0402	0.424	0.422	4.8	5.1	1.16	1.11	83.2	83.2	31.7	29.9	13.1	13.4	30.7	31.7	2.9	3.5	3.8	2.2	02T57R
2002	Panther Burn	MS	23PB0417	0.394	0.401	4.3	4.5	1.21	1.14	87.0	82.4	33.5	31.0	14.1	14.3	30.7	31.7	3.5	3.5	3.8	2.4	02T57R
2003	Panther Burn	MS	34PB0404	0.404	0.403	4.4	4.5	1.15	1.13	84.3	83.1	31.8	31.3	13.4	12.9	34.4	40.0	3.5	3.5	3.9	2.5	02T57R
2002	Panther Burn	MS	23PU0418	0.400	0.408	4.4	4.8	1.15	1.09	83.0	84.5	27.6	26.3	14.5	13.3	34.4	40.0	2.8	3.4	2.8	3.4	02T57R
2003	Panther Burn	MS	34PU0405	0.400	0.401	4.4	4.5	1.15	1.11	84.1	82.6	33.1	32.4	13.5	13.5	44.4	40.0	3.5	3.5	3.9	2.5	02T57R
2003	Scott	MS	34SM0401	0.411	0.400	4.0	4.1	1.19	1.10	83.0	82.8	32.5	31.4	13.7	13.4	44.4	40.0	2.8	3.4	2.8	3.4	02T57R
2002	Hartsville	SC	23HV0113	0.387	0.384	4.4	4.8	1.14	1.12	84.8	85.4	31.0	30.8	14.1	14.3	37.4	38.8	3.6	3.8	3.1	4.5	02T57R
2003	Hartsville	SC	34HV0109	0.371	0.374	3.7	4.2	1.19	1.14	84.4	83.4	33.8	32.8	14.1	14.6	37.4	38.8	2.6	3.5	2.5	2.5	02T57R
2002	Haskell	TX	23HU0536	0.377	0.383	3.3	3.3	1.17	1.10	76.7	75.4	28.2	26.7	14.5	14.7	44.3	47.0	1.0	1.0	2.3	2.3	02T57R
2003	LRG	TX	2047000156	0.351	0.353	4.9	5.0	1.14	1.08	83.0	82.0	29.4	28.5	14.5	14.7	44.3	47.0	2.3	2.3	2.3	2.0	02T57R
Average				0.3909	0.3899	4.48	4.58	1.173	1.133	83.75	83.16	31.20	30.73	13.49	13.67	39.08	40.53	2.98	3.32	2.89	2.20	2.21
No. Comparisons				29		28		28		28		28		27		14		17		25		18
Difference				0.0011		-0.10		0.0397		0.59		0.46		-0.18		-1.46		-0.35		0.68		0.64
F ratio - Analysis of Variance				0.35		9.62		70.80		6.39		4.28		2.60		2.94		6.74		19.48		28.80
Probability of difference - F test				0.5612		0.0045		0.0000		0.0177		0.0482		0.1186		0.1104		0.0195		0.0002		0.0001

¹ Plant Height Rating (1-5): 1=Short plant, 5=Tail plant

² Maturity Rating (1-5): 1=Early maturing, 5=Late maturing

³ Siring Out Rating (1-5): 1=Seed cotton held tight in boll, 5=Seed cotton held loose in boll

⁴ Fall Out Rating (1-5): 1=Cotton stays in boll, 5=Cotton falls from boll to ground

COPY

200400117
REPLACEMENT 8/13/04
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EXHIBIT C. Table 1a. Supporting Agronomic Data

Exhibit C. Table C1 was derived from the following tests conducted by Delta and Pine Land Co.

Test Name	Year	City	State	Entry	Name	Lint Percent	Lint/Acre	Micronaire	Length	Uniformity	Strength	Elongation	Plant Height (In)	Maturity (Rate)	String Out (Rate)	Fall Out (Rate)
11CO0720	2001	Coolidge	AZ	1	02T57R	0.404	1655	5.2	1.22	84.3	32.9	10.5		3.5	4.0	
11CO0720	2001	Coolidge	AZ	31	DP 5415 RR	0.394	1717	5.1	1.18	84.4	33.6	11.2		3.7	2.3	
11CO0720	2001	Coolidge	AZ	101	GMEAN	0.408	1628	5.2	1.17	84.8	32.1	10.8		3.0	3.6	
11CO0720	2001	Coolidge	AZ	104	LSD(.05)	0.009	198	0.2	0.02	0.7	1.2	0.8		0.9	1.1	
11CO0720	2001	Coolidge	AZ	105	CV	1.545	9	2.5	1.41	0.6	2.7	5.7		21.9	21.7	
11CO0720	2001	Coolidge	AZ	106	N	3.000	3	3.0	3.00	3.0	3.0	3.0		3.0	3.0	
23CO0706	2002	Coolidge	AZ	27	02T57R	0.404	1725	4.5	1.15	79.2	27.8	14.3	34.4	2.3	4.3	
23CO0706	2002	Coolidge	AZ	40	DP 5415 RR	0.390	1785	4.5	1.15	77.1	30.2	14.0	40.6	3.3	3.0	
23CO0706	2002	Coolidge	AZ	101	GMEAN	0.407	1616	4.5	1.14	80.4	28.6	13.1	41.2	3.2	3.2	
23CO0706	2002	Coolidge	AZ	104	LSD(.05)	0.017	247	0.3	0.04	3.1	1.9	1.0	9.4	0.8	0.7	
23CO0706	2002	Coolidge	AZ	105	CV	3.574	13	6.3	2.87	3.3	5.6	6.2	19.4	21.2	19.6	
23CO0706	2002	Coolidge	AZ	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0	4.0	4.0	
31CO0725	2003	Coolidge	AZ	14	DP 5415 RR	0.387	1583	4.9	1.21	84.5	33.5	14.4		3.8	3.0	
31CO0725	2003	Coolidge	AZ	21	02T57R	0.395	1903	5.0	1.22	84.7	32.6	14.3		3.0	3.5	
31CO0725	2003	Coolidge	AZ	101	GMEAN	0.382	1734	5.0	1.20	84.6	31.8	12.8				
31CO0725	2003	Coolidge	AZ	104	LSD(.05)	0.008	156	0.1	0.03	0.9	1.8	0.9				
31CO0725	2003	Coolidge	AZ	105	CV	1.804	8	2.4	1.99	0.9	4.8	5.8				
34CO0707	2003	Coolidge	AZ	11	02T57R	0.387	1578	5.3	1.19	83.9	31.9	12.6		3.5	2.3	
34CO0707	2003	Coolidge	AZ	16	DP 5415 RR	0.377	1434	5.4	1.16	83.5	31.5	12.7		3.7	2.3	
34CO0707	2003	Coolidge	AZ	101	GMEAN	0.399	1428	5.3	1.15	83.4	31.1	12.5				
34CO0707	2003	Coolidge	AZ	104	LSD(.05)	0.007	125	0.1	0.02	0.7	1.4	0.7				
34CO0707	2003	Coolidge	AZ	105	CV	1.877	9	2.8	2.00	0.9	4.8	5.8				
11MR0721	2001	Marana	AZ	1	02T57R	0.377	1502							3.0	4.0	
11MR0721	2001	Marana	AZ	31	DP 5415 RR	0.363	1369							4.0	2.0	
11MR0721	2001	Marana	AZ	101	GMEAN	0.384	1526							3.1	3.2	
11MR0721	2001	Marana	AZ	104	LSD(.05)	0.012	183							3.1	3.2	
11MR0721	2001	Marana	AZ	105	CV	2.324	9									
11MR0721	2001	Marana	AZ	106	N	3.000	3									
11MA0719	2001	Maricopa	AZ	1	02T57R	0.379	2250	4.5	1.21	83.1	30.5	11.6		2.7	3.0	
11MA0719	2001	Maricopa	AZ	31	DP 5415 RR	0.369	1994	4.8	1.17	84.2	31.3	11.9		3.7	2.0	
11MA0719	2001	Maricopa	AZ	101	GMEAN	0.379	2094	4.7	1.21	84.1	30.5	10.8		2.9	2.7	
11MA0719	2001	Maricopa	AZ	104	LSD(.05)	0.014	159	0.3	0.03	0.7	1.2	0.7		0.6	0.5	
11MA0719	2001	Maricopa	AZ	105	CV	2.643	6	4.1	1.60	0.6	2.9	4.6		16.0	14.2	
11MA0719	2001	Maricopa	AZ	106	N	3.000	3	3.0	3.00	3.0	3.0	3.0		3.0	3.0	
23MA0705	2002	Maricopa	AZ	27	02T57R	0.404	2170	4.3	1.21	82.5	31.8	15.0	31.3	2.5	3.8	
23MA0705	2002	Maricopa	AZ	40	DP 5415 RR	0.386	1971	4.0	1.19	83.3	32.6	14.3	37.5	3.3	2.0	
23MA0705	2002	Maricopa	AZ	101	GMEAN	0.404	1877	4.3	1.20	83.5	31.4	13.7	48.1	3.7	2.9	
23MA0705	2002	Maricopa	AZ	104	LSD(.05)	0.031	174	0.3	0.04	2.8	1.6	1.0	6.1	0.6	0.6	
23MA0705	2002	Maricopa	AZ	105	CV	6.594	8	5.7	2.60	2.9	4.4	6.5	10.9	14.6	19.2	
23MA0705	2002	Maricopa	AZ	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0	4.0	4.0	
31MA0726	2003	Maricopa	AZ	14	DP 5415 RR	0.352	1090	5.3	1.22	84.9	32.4	11.8		2.7	2.3	
31MA0726	2003	Maricopa	AZ	21	02T57R	0.372	1388	5.0	1.24	85.2	33.5	12.6		2.3	2.7	
31MA0726	2003	Maricopa	AZ	101	GMEAN	0.347	1268	5.0	1.22	84.6	31.1	11.6				
31MA0726	2003	Maricopa	AZ	104	LSD(.05)	0.008	136	0.2	0.03	1.1	1.8	0.6				
31MA0726	2003	Maricopa	AZ	105	CV	2.035	9	3.0	2.03	1.1	5.0	4.6				
34MA0730	2003	Maricopa	AZ	11	02T57R	0.350	1160	5.3	1.22	85.5	32.7	11.2		2.8	3.8	
34MA0730	2003	Maricopa	AZ	16	DP 5415 RR	0.355	1186	5.2	1.24	84.1	30.1	11.1		3.0	2.5	
34MA0730	2003	Maricopa	AZ	101	GMEAN	0.363	1071	5.1	1.21	84.4	31.6	11.3				
34MA0730	2003	Maricopa	AZ	104	LSD(.05)	0.025	145	0.3	0.05	1.3	1.9	1.2				
34MA0730	2003	Maricopa	AZ	105	CV	5.745	11	5.7	3.63	1.3	5.0	9.3				

EXHIBIT C. Table 1a. Supporting Agronomic Data

Exhibit C. Table C1 was derived from the following tests conducted by Delta and Pine Land Co.

Test Name	Year	City	State	Entry	Name	Lint Percent	Lint/Acre	Micronaire	Length	Uniformity	Strength	Elongation	Plant Height (In)	Maturity (Rate)	String Out (Rate)	Fall Out (Rate)
23BB0214	2002	Bainbridge	GA	27	02T57R	0.401	1256	4.7	1.18	85.3	30.9	13.6	37.0	2.8	2.5	1.5
23BB0214	2002	Bainbridge	GA	40	DP 5415 RR	0.418	1099	4.9	1.14	86.4	31.2	14.5	36.0	2.0	1.8	1.3
23BB0214	2002	Bainbridge	GA	101	GMEAN	0.416	1404	4.5	1.16	84.6	31.5	13.1	42.0	1.8	2.8	2.0
23BB0214	2002	Bainbridge	GA	104	LSD(.05)	0.007	183	0.1	0.02	1.8	1.2	0.7	4.8	0.5	0.5	0.6
23BB0214	2002	Bainbridge	GA	105	CV	1.501	11	2.6	1.43	1.8	3.3	4.3	9.7	26.1	15.1	27.4
23BB0214	2002	Bainbridge	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0
34BB0205	2003	Bainbridge	GA	11	02T57R	0.388	1486	4.1	1.14	83.7	31.0	14.3	37.0		2.0	1.3
34BB0205	2003	Bainbridge	GA	16	DP 5415 RR	0.383	1170	4.2	1.10	82.9	30.1	15.2	35.5		1.0	1.0
34BB0205	2003	Bainbridge	GA	101	GMEAN	0.403	1447	4.2	1.15	84.1	31.6	13.4	38.0		1.9	1.2
34BB0205	2003	Bainbridge	GA	104	LSD(.05)	0.010	265	0.3	0.04	1.0	1.5	0.8	4.8		0.5	0.4
34BB0205	2003	Bainbridge	GA	105	CV	2.115	15	5.2	2.65	1.0	4.0	5.2	10.8		22.6	27.2
34BB0205	2003	Bainbridge	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0		4.0	4.0
34SB0209	2003	Statesboro	GA	11	02T57R	0.374	964	4.4	1.12	83.7	30.8	15.1	39.0		2.0	2.0
34SB0209	2003	Statesboro	GA	16	DP 5415 RR	0.369	837	4.3	1.11	84.0	32.0	15.1	42.3		1.0	1.0
34SB0209	2003	Statesboro	GA	101	GMEAN	0.400	1115	4.3	1.14	84.1	32.5	14.6	42.2		1.9	1.4
34SB0209	2003	Statesboro	GA	104	LSD(.05)	0.009	160	0.2	0.04	1.4	1.8	1.2	4.5		0.4	0.5
34SB0209	2003	Statesboro	GA	105	CV	1.873	12	3.2	2.98	1.4	4.6	6.7	9.0		19.7	29.9
34SB0209	2003	Statesboro	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0		4.0	4.0
23TF0213	2002	Tifton	GA	27	02T57R	0.393	1594	4.4	1.17	87.4	28.8	14.7		2.8	3.1	2.3
23TF0213	2002	Tifton	GA	40	DP 5415 RR	0.408	1664	4.5	1.09	85.5	28.1	14.6		2.0	1.8	1.5
23TF0213	2002	Tifton	GA	101	GMEAN	0.412	1611	4.2	1.14	84.9	28.9	13.6		1.8	2.9	2.1
23TF0213	2002	Tifton	GA	104	LSD(.05)	0.016	167	0.2	0.02	2.1	1.3	0.8		0.5	0.6	0.4
23TF0213	2002	Tifton	GA	105	CV	3.387	9	3.5	1.53	2.1	3.9	4.7		26.1	16.6	15.1
23TF0213	2002	Tifton	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0		4.0	4.0	4.0
34TF0203	2003	Tifton	GA	11	02T57R	0.399	1091	4.1	1.16	82.9	32.9	13.6	57.8	4.0	1.3	1.0
34TF0203	2003	Tifton	GA	16	DP 5415 RR	0.412	1029	4.0	1.11	81.6	31.2	13.7	63.3	4.0	1.0	1.0
34TF0203	2003	Tifton	GA	101	GMEAN	0.417	1247	4.1	1.14	82.7	32.2	12.8	57.3	3.1	1.4	1.0
34TF0203	2003	Tifton	GA	104	LSD(.05)	0.008	157	0.2	0.03	1.1	1.5	1.0	4.2	0.7	0.5	0.2
34TF0203	2003	Tifton	GA	105	CV	1.615	11	4.0	2.21	1.2	4.0	6.7	6.2	19.5	29.1	16.0
34TF0203	2003	Tifton	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0
34UN0207	2003	Unadilla	GA	11	02T57R	0.387	1011	4.1	1.16	83.4	32.1	13.7	33.8		1.8	1.5
34UN0207	2003	Unadilla	GA	16	DP 5415 RR	0.387	1083	4.2	1.11	83.2	32.3	14.2	36.3		1.5	1.0
34UN0207	2003	Unadilla	GA	101	GMEAN	0.411	1139	4.3	1.12	83.1	32.0	13.1	35.2		2.1	1.5
34UN0207	2003	Unadilla	GA	104	LSD(.05)	0.008	160	0.3	0.03	1.1	1.7	0.9	3.8		0.5	0.5
34UN0207	2003	Unadilla	GA	105	CV	1.604	12	5.6	2.17	1.1	4.6	5.7	9.1		19.7	29.4
34UN0207	2003	Unadilla	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0		4.0	4.0
34WC0211	2003	Willacoochee (treated)	GA	11	02T57R	0.404	1277	4.6	1.15	84.1	31.0	12.9	38.3		1.8	1.0
34WC0211	2003	Willacoochee (treated)	GA	16	DP 5415 RR	0.413	1345	4.5	1.11	83.5	32.1	13.9	37.0		1.8	1.0
34WC0211	2003	Willacoochee (treated)	GA	101	GMEAN	0.422	1517	4.4	1.13	83.4	32.1	12.7	40.2		2.0	1.2
34WC0211	2003	Willacoochee (treated)	GA	104	LSD(.05)	0.005	107	0.3	0.02	1.0	1.3	0.7	3.2		0.3	0.3
34WC0211	2003	Willacoochee (treated)	GA	105	CV	1.001	6	5.1	1.66	1.0	3.3	4.6	6.7		14.6	24.2
34WC0211	2003	Willacoochee (treated)	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0		4.0	4.0
34WU0213	2003	Willacoochee (Untreated)	GA	11	02T57R	0.388	1054	4.2	1.14	83.5	27.8	13.8	44.3		1.8	1.3
34WU0213	2003	Willacoochee (Untreated)	GA	16	DP 5415 RR	0.393	923	4.4	1.10	83.2	27.6	15.2	45.3		1.3	1.0
34WU0213	2003	Willacoochee (Untreated)	GA	101	GMEAN	0.406	1200	4.3	1.12	83.3	28.3	13.3	41.9		1.9	1.2
34WU0213	2003	Willacoochee (Untreated)	GA	104	LSD(.05)	0.011	173	0.3	0.03	0.8	1.1	0.7	4.1		0.4	0.4
34WU0213	2003	Willacoochee (Untreated)	GA	105	CV	2.381	12	6.0	2.13	0.9	3.3	4.3	8.3		19.6	27.9
34WU0213	2003	Willacoochee (Untreated)	GA	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0		4.0	4.0

EXHIBIT C. Table 1a. Supporting Agronomic Data

Exhibit C. Table C1 was derived from the following tests conducted by Delta and Pine Land Co.

Test Name	Year	City	State	Entry	Name	Lint Percent	Lint/Acre	Micronaire	Length	Uniformity	Strength	Elongation	Plant Height (in)	Maturity (Rate)	String Out (Rate)	Fall Out (Rate)
23NE0416	2002	Newellton	LA	27	02T57R	0.406	1068	4.8	1.17	86.7	31.5	13.4			2.7	2.3
23NE0416	2002	Newellton	LA	40	DP 5415 RR	0.409	1217	4.9	1.13	84.7	30.1	14.2			1.6	2.2
23NE0416	2002	Newellton	LA	101	GMEAN	0.409	1240	4.7	1.16	84.3	31.3	12.6			2.8	2.2
23NE0416	2002	Newellton	LA	104	LSD(.05)	0.011	77	0.2	0.03	3.4	2.0	1.4			0.6	0.9
23NE0416	2002	Newellton	LA	105	CV	1.947	5	3.7	1.80	2.9	4.8	7.9			18.9	24.1
23NE0416	2002	Newellton	LA	106	N	3.000	4	3.0	3.00	3.0	3.0	3.0			4.0	2.0
34NE0403	2003	Newellton	LA	11	02T57R	0.410	1780	4.4	1.16	82.6	30.9	12.1	37.6			4.1
34NE0403	2003	Newellton	LA	16	DP 5415 RR	0.414	1878	4.7	1.13	82.8	29.9	12.7	36.4			2.9
34NE0403	2003	Newellton	LA	101	GMEAN	0.424	1837	4.5	1.14	82.9	30.2	12.1	37.7			3.4
34NE0403	2003	Newellton	LA	104	LSD(.05)	0.008	139	0.2	0.02	1.1	1.3	0.7	2.6			0.5
34NE0403	2003	Newellton	LA	105	CV	1.524	6	3.6	1.51	1.1	3.7	5.1	5.8			12.7
34WI0402	2003	Wisner	LA	11	02T57R	0.424	1594	4.8	1.16	83.2	31.7	13.1	30.7	3.6	3.6	3.1
34WI0402	2003	Wisner	LA	16	DP 5415 RR	0.422	1659	5.1	1.11	83.2	29.9	13.4	31.7	3.5	3.5	1.9
34WI0402	2003	Wisner	LA	101	GMEAN	0.435	1664	4.9	1.15	83.7	32.1	12.3	31.6	3.6	3.6	3.1
34WI0402	2003	Wisner	LA	104	LSD(.05)	0.008	79	0.2	0.02	1.0	1.6	0.8	2.5	0.7	0.7	0.4
34WI0402	2003	Wisner	LA	105	CV	1.632	4	3.9	1.63	1.0	4.3	5.4	6.6	15.6	15.6	12.0
23PB0417	2002	Panther Burn (treated)	MS	27	02T57R	0.394	1164	4.3	1.21	87.0	33.5	14.1		2.9	3.8	2.9
23PB0417	2002	Panther Burn (treated)	MS	40	DP 5415 RR	0.401	1191	4.5	1.14	82.4	31.0	14.3		3.5	2.4	2.2
23PB0417	2002	Panther Burn (treated)	MS	101	GMEAN	0.406	1169	4.5	1.18	85.3	31.5	12.7		3.0	3.3	2.8
23PB0417	2002	Panther Burn (treated)	MS	104	LSD(.05)	0.010	136	0.2	0.03	2.5	1.2	0.8		0.7	0.6	0.7
23PB0417	2002	Panther Burn (treated)	MS	105	CV	1.737	10	3.2	1.69	2.1	2.9	4.9		18.7	16.7	21.2
23PB0417	2002	Panther Burn (treated)	MS	106	N	3.000	4	3.0	3.00	3.0	3.0	3.0		4.0	4.0	4.0
34PB0404	2003	Panther Burn (treated)	MS	11	02T57R	0.404	1310	4.4	1.15	84.3	31.6	13.4				2.5
34PB0404	2003	Panther Burn (treated)	MS	16	DP 5415 RR	0.403	1304	4.5	1.13	83.1	31.3	12.9				1.5
34PB0404	2003	Panther Burn (treated)	MS	101	GMEAN	0.420	1427	4.4	1.14	83.5	31.6	12.5				2.6
34PB0404	2003	Panther Burn (treated)	MS	104	LSD(.05)	0.018	157	0.2	0.03	1.0	1.3	1.0				0.5
34PB0404	2003	Panther Burn (treated)	MS	105	CV	3.576	9	4.8	2.40	1.0	3.4	6.8				16.0
23PU0418	2002	Panther Burn (untreated)	MS	27	02T57R	0.400	823	4.4	1.15	83.0	27.6	14.5			3.9	3.2
23PU0418	2002	Panther Burn (untreated)	MS	40	DP 5415 RR	0.408	827	4.8	1.09	84.5	26.3	13.3			2.5	2.3
23PU0418	2002	Panther Burn (untreated)	MS	101	GMEAN	0.416	895	4.6	1.15	84.2	27.9	13.1			3.3	3.0
23PU0418	2002	Panther Burn (untreated)	MS	104	LSD(.05)	0.009	112	0.2	0.03	2.9	1.4	1.0			0.7	0.7
23PU0418	2002	Panther Burn (untreated)	MS	105	CV	1.566	9	3.3	1.94	2.6	3.7	5.9			14.8	17.4
23PU0418	2002	Panther Burn (untreated)	MS	106	N	3.000	3	3.0	3.00	3.0	3.0	3.0			3.0	3.0
34PU0405	2003	Panther Burn (untreated)	MS	11	02T57R	0.400	1341	4.4	1.15	84.1	33.1	13.5				3.0
34PU0405	2003	Panther Burn (untreated)	MS	16	DP 5415 RR	0.401	1262	4.5	1.11	82.6	32.4	13.5				2.0
34PU0405	2003	Panther Burn (untreated)	MS	101	GMEAN	0.415	1248	4.4	1.13	83.6	33.1	12.6				2.6
34PU0405	2003	Panther Burn (untreated)	MS	104	LSD(.05)	0.008	205	0.2	0.03	0.9	1.8	1.3				0.7
34PU0405	2003	Panther Burn (untreated)	MS	105	CV	1.467	12	3.8	1.95	0.8	4.0	7.7				18.2
34SM0401	2003	Scott	MS	11	02T57R	0.411	1595	4.0	1.19	83.0	32.5	13.7	44.4	2.8	2.8	3.7
34SM0401	2003	Scott	MS	16	DP 5415 RR	0.400	1414	4.1	1.10	82.8	31.4	13.4	40.0	3.4	3.4	1.9
34SM0401	2003	Scott	MS	101	GMEAN	0.419	1657	4.1	1.16	83.8	32.8	12.3	44.1	3.4	3.4	3.0
34SM0401	2003	Scott	MS	104	LSD(.05)	0.011	148	0.3	0.02	0.9	1.2	0.7	4.1	0.8	0.8	0.5
34SM0401	2003	Scott	MS	105	CV	2.182	8	5.5	1.79	1.0	3.0	4.5	7.8	20.2	20.2	15.1
23HV0113	2002	Hartsville	SC	27	02T57R	0.387	1014	4.4	1.14	84.8	31.0	14.1	12.5	3.6	3.1	
23HV0113	2002	Hartsville	SC	40	DP 5415 RR	0.384	830	4.8	1.12	85.4	30.8	14.3	13.8	3.8	4.5	
23HV0113	2002	Hartsville	SC	101	GMEAN	0.393	972	4.3	1.15	83.5	31.8	13.3	14.6	3.3	3.0	
23HV0113	2002	Hartsville	SC	104	LSD(.05)	0.015	149	0.4	0.04	2.9	1.9	1.3	3.4	0.5	0.5	
23HV0113	2002	Hartsville	SC	105	CV	3.139	13	7.0	2.84	3.0	5.0	8.5	19.9	12.8	14.7	
23HV0113	2002	Hartsville	SC	106	N	4.000	4	4.0	4.00	4.0	4.0	4.0	4.0	4.0	4.0	

EXHIBIT C. Table 1a. Supporting Agronomic Data

Exhibit C. Table C1 was derived from the following tests conducted by Delta and Pine Land Co.

Test Name	Year	City	State	Entry	Name	Lint Percent	Lint/Acre	Micronaire	Length	Uniformity	Strength	Elongation	Plant Height (in)	Maturity (Rate)	String Out (Rate)	Fall Out (Rate)
34HV0109	2003	Hartsville	SC	11	02T57R	0.371	1132	3.7	1.19	84.4	33.8	14.1	37.4	2.6	2.5	1.0
34HV0109	2003	Hartsville	SC	16	DP 5415 RR	0.374	1254	4.2	1.14	83.4	32.8	14.6	38.8	3.5	2.5	1.0
34HV0109	2003	Hartsville	SC	101	GMEAN	0.388	1193	4.1	1.16	84.2	33.6	13.0	37.7	2.6	2.7	1.1
34HV0109	2003	Hartsville	SC	104	LSD(.05)	0.014	227	0.3	0.03	0.9	3.4	1.1	6.1	0.6	0.8	0.4
34HV0109	2003	Hartsville	SC	105	CV	0.030	16	5.4	2.07	0.9	8.5	7.3	13.6	18.3	23.8	28.3
23HI0536	2002	Haskell	TX	27	02T57R	0.377	1364	3.3	1.17	76.7	28.2	14.5	44.3		2.3	2.3
23HI0536	2002	Haskell	TX	40	DP 5415 RR	0.383	1391	3.3	1.10	75.4	26.7	14.7	47.0		2.0	1.7
23HI0536	2002	Haskell	TX	101	GMEAN	0.393	1519	3.4	1.14	77.0	27.3	14.4	46.4		2.7	2.0
23HI0536	2002	Haskell	TX	104	LSD(.05)	0.013	187	0.2	0.04	2.9	1.9	1.3	3.7		0.6	0.7
23HI0536	2002	Haskell	TX	105	CV	2.436	9	3.7	2.30	2.2	4.2	5.3	5.8		17.3	23.8
23HI0536	2002	Haskell	TX	106	N	3.000	3	2.0	2.00	2.0	2.0	2.0	3.0		3.0	3.0
2047000156	2003	LRG	TX	9	02T57R	0.351	1091	4.9	1.14	83.0	29.4					
2047000156	2003	LRG	TX	35	DP 5415 RR	0.353	947	5.0	1.08	82.0	28.5					
2047000156	2003	LRG	TX	101	GMEAN	0.356	1082	4.7	1.10	82.3	29.0					

EXHIBIT C. Table C2. Plant Mapping Data. Data taken at Maricopa, AZ. in 2003.

Replication	Cm To First Fruiting Branch		No. of Nodes To 1st Fruiting Branch		Mature Plant Height cm		Lint Index		Seed Index		Number of Seeds Per Boll		Grams Of Seed Cotton Per Boll	
	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR	02T57R	DP 5415 RR
1	20.0	19.0	6.0	6.0	100.0	116.0	6.3	5.3	10.2	10.0	27.5	30.2	4.9	4.6
2	18.0	18.0	7.0	6.0	94.0	107.0	6.3	5.7	10.6	9.7	26.7	30.7	5.1	4.8
3	19.0	19.0	6.0	6.0	112.0	107.0	6.4	5.6	10.3	9.2	29.0	34.6	4.6	5.0
4	19.0	22.0	6.0	6.0	117.0	89.0	6.5	5.6	10.3	9.4	30.4	30.5	4.7	4.8
Average	19.0	19.5	6.3	6.0	105.8	104.8	6.4	5.6	10.4	9.6	28.4	31.5	4.8	4.8
N		4		4		4		4		4		4		4
Paired T-Test P(<=t)		0.302		0.196		0.464		0.001		0.015		0.038		0.446
Difference (02T57R-DP 5415 RR)		-0.5 NS		0.3 NS		1.0 NS		0.8 **		0.8 *		-3.1 *		0.0 NS

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP**

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING COMPANY, LLC.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 02T57R	3. VARIETY NAME
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. BOX 157 SCOTT, MISSISSIPPI 38772	5. TELEPHONE (Include area code) 662.742.4141	6. FAX (Include area code) 662.742.3182
7. PVPO NUMBER 2004 00 1 17		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒

YES

☐

NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒

YES

☐

NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

YES

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

02T57R contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in cotton cultivars.**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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